

**IN THE U.S. PATENT AND TRADEMARK OFFICE**

Applicant(s): Per-Simon KILDAL  
Int'l Application No.: PCT/SE2004/001178  
Application No.: **NEW**  
Filed: February 3, 2006  
For: BROADBAND MULTI-DIPOLE ANTENNA WITH  
FREQUENCY-INDEPENDENT RADIATION  
CHARACTERISTICS

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**INFORMATION DISCLOSURE STATEMENT  
(SUBMISSION CONCURRENT WITH THE  
FILING OF A NEW PATENT APPLICATION)**

Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314  
**Mail Stop PCT**

February 3, 2006

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

**I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION**

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

**II. COPIES**

- ☐ Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☒ This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned.

- ☐ Because the present application is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

III. CONCISE EXPLANATION OF THE RELEVANCE  
(check at least one box)

a. ☐ **DOCUMENTS IN THE ENGLISH LANGUAGE**

Some of the attached patents, publications, or other information in the English language do not require a statement of relevancy.

b. ☒ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

Many of the documents have been discussed in the PCT Search Report, the PCT Preliminary Examination Report, and/or throughout the specification. The PCT Search Report and PCT Preliminary Examination Report, along with a German translation aid translating key terms into English, indicate the degree of relevance found by the PCT Office, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

c. ☐ **ENGLISH LANGUAGE SEARCH REPORT**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☐ **OTHER**

The following additional information is provided for the Examiner's consideration.

Applicants include a German translation aid for translating terminology in the PCT Search Report and Examination Report to thereby satisfy Applicant's requirement for an English language translation thereof.

e. ☐ **EQUIVALENCY DOCUMENTS**

10/567155

1AP20 Rec'd PCT/PTO 03 FEB 2006  
New PCT National Phase Application  
Docket No. 10400C-000210/US

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 08-0750.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C.

By: 

John A. Castellano, Reg. No. 35,094

P.O. Box 8910  
Reston, Virginia 20195  
(703) 668-8000

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Enclosures:

- ☒ Form PTO-1449(s)
- ☐ Documents
- ☒ International Search Report (PCT/ISA/210 and PCT/ISA/220)
- ☐ International Preliminary Examination Report (PCT/IPEA/416 and PCT/IPEA/409)
- ☐ Fee
- ☐ Other: German Translation Aid

Form PTO-1449  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  (Use several sheets if necessary)			ATTY DOCKET NO. 10400C-000210/US  APPLICANTS Per-Simon KILDAL  FILING DATE February 3, 2006		APPLICATION NO. <b>107567155</b> CONF. NO. Unknown  GROUP Unknown	
<b>U.S. PATENT DOCUMENTS</b>						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	US 3,696,437 A	10/03/1972	Grant			
	US 6,362,796 B1	03/26/2002	Bohlman			
	US 5,093,670 A	03/03/1992	Braathen			
	US 3,079,602 A	02/26/1963	Hamel et al.			
	US 5,274,390 A	12/28/1993	Breakall			
	US 3,543,277 A	11/24/1970	Pullara			
	US 3,286,268 A	11/15/1966	Barbano			
<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	GB 983447 A	02/17/1965	GREAT BRITAIN			
	DE 8104760 U1	09/10/1981	GERMANY			
<b>OTHER DOCUMENTS</b> (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.						
		P.S. Excell et al: "Log-Periodic Antenna For Pulsed Radiation" Electronics Letters 15 <sup>th</sup> October 1998, Vol. 34, No. 21, p.1-2, figure 3.				
EXAMINER			DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

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